

Title (en)
INFORMATION PROCESSING DEVICE, SPECKLE IMAGING SYSTEM, AND INFORMATION PROCESSING METHOD

Title (de)
INFORMATIONSVERRARBEITUNGSVORRICHTUNG, SPECKLE-ABBILDUNGSSYSTEM UND INFORMATIONSVERRARBEITUNGSVERFAHREN

Title (fr)
DISPOSITIF DE TRAITEMENT D'INFORMATIONS, SYSTÈME D'IMAGERIE DE TAVELURES ET PROCÉDÉ DE TRAITEMENT D'INFORMATIONS

Publication
EP 3385723 A4 20181205 (EN)

Application
EP 16870320 A 20161019

Priority

- JP 2015238047 A 20151204
- JP 2016080906 W 20161019

Abstract (en)
[origin: EP3385723A1] Provided is a technology capable of simply and efficiently obtaining a contrast of a speckle pattern as a prerequisite for measuring a fluid velocity. The present technology provides an information processing apparatus including: a luminance integrator that integrates a luminance of a plurality of speckle images obtained by an imaging element by a plurality of times of imaging of scattered light obtained from an imaging target to which coherent light is emitted; and a contrast calculation unit that calculates a contrast of a speckle pattern on the basis of a speckle integrated image integrated by the luminance integrator.

IPC 8 full level
G01P 5/22 (2006.01); **A61B 5/026** (2006.01); **A61B 5/1455** (2006.01); **G01F 1/704** (2006.01); **G01P 5/26** (2006.01)

CPC (source: EP US)
A61B 5/026 (2013.01 - US); **A61B 5/0261** (2013.01 - EP US); **A61B 5/1455** (2013.01 - US); **A61B 5/7445** (2013.01 - EP US); **G01F 1/704** (2013.01 - US); **G01F 1/7086** (2013.01 - EP); **G01F 1/712** (2013.01 - EP); **G01P 5/22** (2013.01 - US); **G01P 5/26** (2013.01 - EP US); **G06T 7/246** (2016.12 - US); **G06T 2207/30104** (2013.01 - US)

Citation (search report)

- [X] US 2012095354 A1 20120419 - DUNN ANDREW [US], et al
- [XAI] LI P ET AL: "IMAGINING CEREBRAL BLOOD FLOW THROUGH THE INTACT RAT SKULL WITH TEMPORAL LASER SPECKLE IMAGING", OPTICS LETTERS, OPTICAL SOCIETY OF AMERICA, US, vol. 31, no. 12, 15 June 2006 (2006-06-15), pages 1824 - 1826, XP001243249, ISSN: 0146-9592
- [X] ABHISHEK REGE ET AL: "Multiexposure laser speckle contrast imaging of the angiogenic microenvironment", JOURNAL OF BIOMEDICAL OPTICS, 1 May 2011 (2011-05-01), XP055023999, Retrieved from the Internet <URL:http://scitation.aip.org/getpdf/servlet/GetPDFServlet?filetype=pdf&id=JBOPFO000016000005056006000001&idtype=cvips&doi=10.1117/1.3582334&prog=normal> [retrieved on 20120405], DOI: 10.1117/1.3582334
- See references of WO 2017094380A1

Designated contracting state (EPC)
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EP 3385723 A1 20181010; **EP 3385723 A4 20181205**; **EP 3385723 B1 20201202**; CN 108291925 A 20180717; CN 108291925 B 20201009; JP 6927046 B2 20210825; JP WO2017094380 A1 20180920; US 2018344176 A1 20181206; WO 2017094380 A1 20170608

DOCDB simple family (application)
EP 16870320 A 20161019; CN 201680069354 A 20161019; JP 2016080906 W 20161019; JP 2017553697 A 20161019; US 201615778758 A 20161019